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- (71) Applicant (for all designated States except US):
SWAGELOK COMPANY [US/US]; 29500 Solon Road, Solon, OH 44139 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **AMES, Nathan, D.** [US/US]; 7910 Twin Hills Road, Streetsboro, OH 44241 (US). **MARSHALL, Andrew, P.** [US/US]; 2208 S. Bellvoir Boulevard, University Heights, OH 44188 (US). **SAPSFORD, Charles** [US/US]; 104 Emmitt Road, Tallmadge, OH 44278 (US). **WOLF, Edwin, L.** [US/US]; 9977 Darrow Park Drive, Apt. 119A, Twinsburg, OH 44087 (US).
- (74) Agents: **LEWIS, Leonard, L. et al.**; Calfee, Halter & Griswold LLP, 1400 McDonald Investment Center, 800 Superior Avenue, Cleveland, OH 44114 (US).
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(54) Title: APPARATUS AND METHOD FOR WELDING DUPLEX STAINLESS STEEL

(57) Abstract: Arc welding of duplex stainless steel tubing is accomplished using a non-pulsed electric arc and a high refractory weld flux. Weld beads, uniform throughout their lengths, and having a duplex phase structure and desirable profile are produced by single pass orbital welding, even if the wall thickness of the duplex tubing exceeds 2 mm.

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